



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC-ABSTRACT

Name of Work:- Drilling of Borewell in Bhuvaneshwari Nagara and Surrounding Area Bagalagunte ward No.14, BBMP, Bangalore.

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	Materials	-	1	1	Cement Sand, Aggregates
2	M30	3.36Cum	1	1	Concrete Cube Compressive Strength

Cubes

0-5 m³ 1set
6-15 m³ 2set
16-30 m³ 3set
31-50 m³ 4 set
Add 1set for every 50 Cum



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಓ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

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Job No.: CACE/BBMP/KMR/W.No.14/2022-23

Date: 15.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency: Sri. K Madhav Reddy, Contractor, Bangalore.
Name of the work: Drilling of Borewell in Bhuvaneshwari Nagara and Surrounding Area Bagalagunte ward No.14, BBMP, Bangalore.

Sample ID: Cement Concrete
Size of cubes: 150mmx150mmx150mm
Cross Sectional Area: 22500 mm²
Technical Reference: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete: M₃₀
Compressive Strength as on: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.06.202	15.06.2022	8.168	500.6	22.25
2	08.06.202	15.06.2022	8.149	516.2	22.94
3	08.06.202	15.06.2022	8.155	489.6	21.76

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Authorised Signatory

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Job No: CACE/BBMP/KMR/W.No.14/2022-23

Date: 06.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency: Sri. K Madhav Reddy, Contractor, Bangalore.
Name of the work: Drilling of Borewell in Bhuvaneshwari Nagara and Surrounding Area Bagalagunte ward No.14, BBMP, Bangalore.

Sample ID: Cement Concrete
Size of cubes: 150mmx150mmx150mm
Cross Sectional Area: 22500 mm²
Technical Reference: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete: M₃₀
Compressive Strength as on: 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.06.202	06.07.2022	8.165	715.2	31.79
2	08.06.202	06.07.2022	8.134	724.6	32.20
3	08.06.202	06.07.2022	8.149	698.6	31.05

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Job No.: CACE/BBMP/KMR/W.No.14/2022-23

Date : 04.06.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. K Madhav Reddy, Contractor, Bangalore.

Name of Work : Drilling of Borewell in Bhuvaneshwari Nagara and Surrounding Area Bagalagunte ward No.14, BBMP, Bangalore.

Date of Testing : 04.06.2022

IS Code : IS 383:2016
: IS 2386 (Part I):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	192	3.8	3.8	96.2	95-100
10	2482	49.6	53.5	46.5	25-55
4.75	1911	38.2	91.7	8.3	0-10

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Signature

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Job No.: CACE/BBMP/KMR/W.No.14/2022-23

Date : 04.06.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. K Madhav Reddy, Contractor, Bangalore.

Name of Work : Drilling of Borewell in Bhuvaneshwari Nagara and Surrounding Area Bagalagunte ward No.14, BBMP, Bangalore.

Date of Testing : 04.06.2022

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms : 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	92	9.20	9.20	90.8	90-100
2.36	129	12.90	22.10	77.9	75-100
1.18	189	18.90	41.00	59.0	55-90
600 Micron	167	16.70	57.70	42.3	35-59
300 Micron	249	24.90	82.60	17.4	8-30
150 Micron	133	13.30	95.90	4.1	0-10

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Job No.: CACE/BBMP/KMR/W.No.14/2022-23

Date :04.06.2022

TEST REPORT ON FINE AGGREGATES (SAND) IS 2116-1980

Client :Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency :Sri. K Madhav Reddy, Contractor, Bangalore.

Name of Work :Drilling of Borewell in Bhuvaneshwari Nagara and Surrounding Area Bagalagunte ward
No.14, BBMP, Bangalore.

Date of Testing :04.06.2022

Material : Sand(Masonry)

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	25	2.50	2.50	97.5	90-100
1.18	38	3.80	6.30	93.7	70-100
600 Micron	85	8.50	14.80	85.2	40-100
300 Micron	261	26.10	40.90	59.1	5-70
150 Micron	482	48.20	89.10	10.9	0-15

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Job No.: CACE/BBMP/KMR/W.No.14/2022-23

TEST REPORT

Date: 04.06.2022

CLIENT	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	Sri. K Madhav Reddy, Contractor, Bangalore.
NAME OF THE WORK	:	Drilling of Borewell in Bhuvaneshwari Nagara and Surrounding Area Bagalagunte ward No.14, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE	:	May-2022
DATE OF TESTING	:	02.06.2022 to 04.06.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29 .00 %	-

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Date : 04.06.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. K Madhav Reddy, Contractor, Bangalore.

Name of Work : Drilling of Borewell in Bhuvaneshwari Nagara and Surrounding Area Bagalagunte ward No.14, BBMP, Bangalore.

Date of Testing : 04.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	169	1.13	1.13	98.87	95-100
20	8001	53.34	54.47	45.53	30-70
10	3115	20.77	75.23	24.77	10-35
4.75	2821	18.81	94.04	5.96	0-5

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